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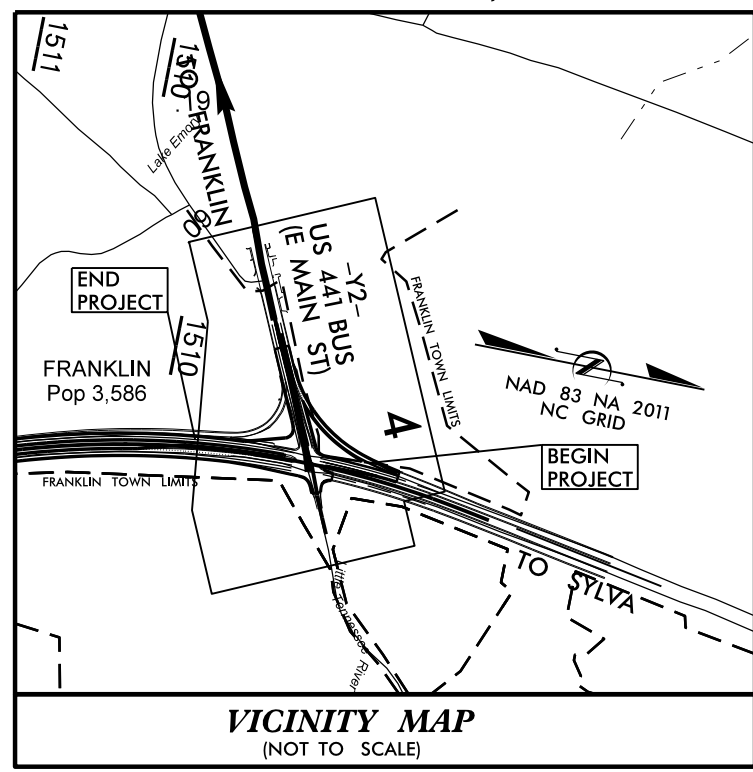
30-MAR-2017 07:50
S:\Dis+3\Macon\DN00520_Cat_Creek_Turn_Lane\DN00520_rdy.tsh.dgn
jechstain AT D14CAD27129

09/08/99

WBS # 45344.3.FS8

CONTRACT: DN00520

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

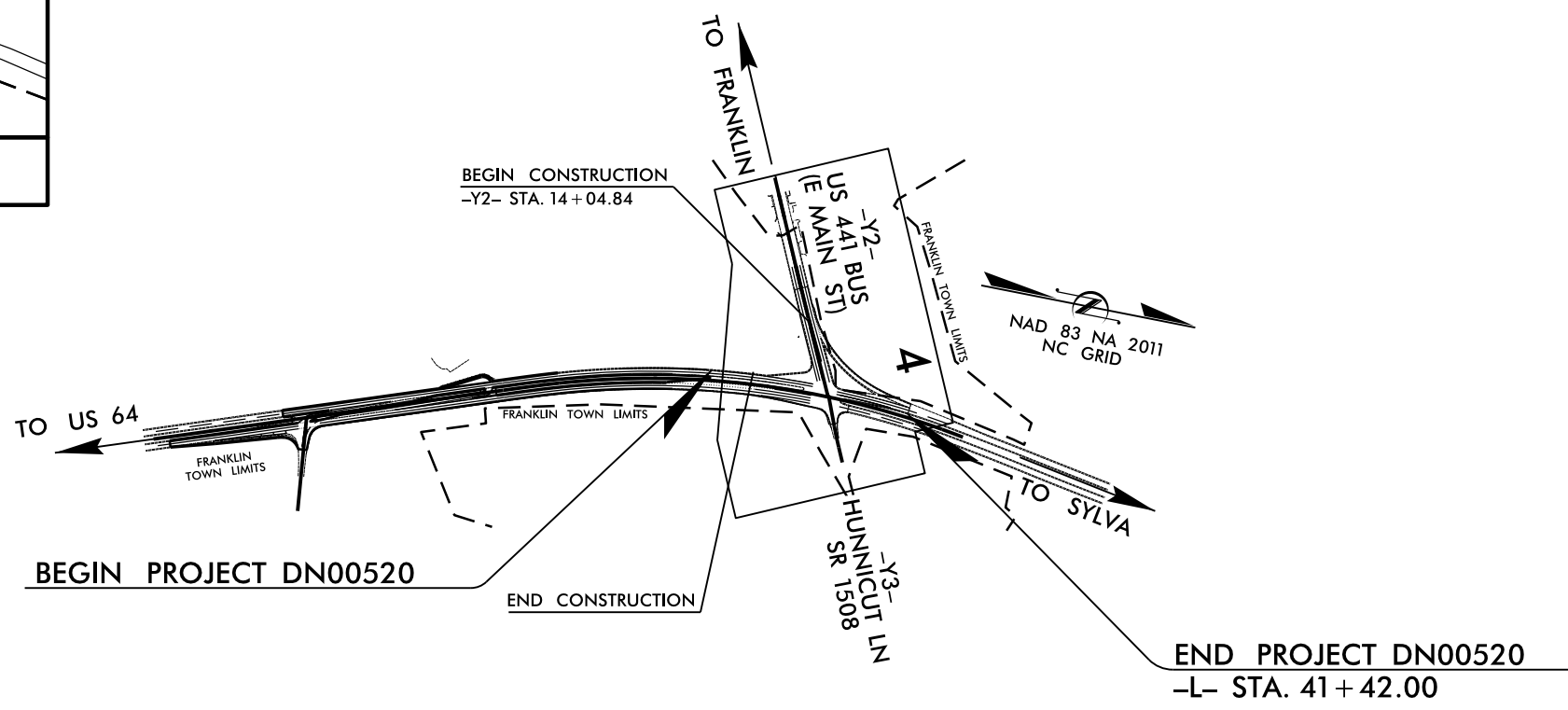


VICINITY MAP
(NOT TO SCALE)

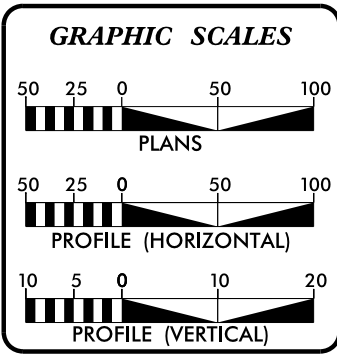
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MACON COUNTY

LOCATION: US 441 BUSINESS TO US 23-441
TYPE OF WORK: GRADING, PAVING, SIGNING,
TRAFFIC CONTROL, AND PAVEMENT MARKINGS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DN00520	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45344.1.8	HSIP-0023(26)	P.E.	
45344.3.FS8	HSIP-0023(26)	CONSTRUCTION	



DESIGN DATA	
ADT 2012 =	19,000
ADT =	
DHV =	%
D =	%
T =	% *
V =	60 MPH
* TTST =	DUAL
FUNC CLASS =	PRINCIPAL ARTERIAL
STATEWIDE TIER	

PROJECT LENGTH	
LENGTH ROADWAY PROJECT DN00520	= 0.25 MILES

PLANS PREPARED BY: DIVISION OF HIGHWAYS 191 ROBBINSVILLE RD ANDREWS NC 28901	
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: FEBRUARY 2, 1973	ANDY RUSSELL, PE PROJECT ENGINEER
LETTING DATE: MAY 23, 2017	ALAN R. BROWN PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER	
SIGNATURE: _____	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE: _____	P.E.



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8/17/99

INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND DETAILS
3	GUARDRAIL SUMMARY SHEET
4	PLAN SHEETS
PMP-1 & PMP-4	PAVEMENT MARKING PLANS
EC-1 THUR EC-5	EROSION CONTROL PLANS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.02	Guide for Grading Subgrade - Secondary and Local
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

GENERAL NOTES: 2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 07-30-12

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SAFETY CLEARING:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE AREAS IN THE PLANS DESIGNATED SAFETY CLEARING. THE LIMITS ARE AS SHOWN OR AS DIRECTED BY THE ENGINEER AND THE CLEARING AND GRUBBING IS CONSIDERED A PART OF THE LUMP SUM ITEM FOR "GRADING".

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY, FRONTIER COMMUNICATIONS, TOCCOA NATURAL GAS, MORRIS BROADBAND CABLE, AND TOWN OF FRANKLIN.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

PROJECT REFERENCE NO.	SHEET NO.
45344.3FS8	1-A
ROADWAY DESIGN ENGINEER	

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Known Soil Contamination: Area or Site	
Potential Soil Contamination: Area or Site	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY:

Baseline Control Point	
Existing Right of Way Marker	
Existing Right of Way Line	
Proposed Right of Way Line	
Proposed Right of Way Line with Iron Pin and Cap Marker	
Proposed Right of Way Line with Concrete or Granite RW Marker	
Proposed Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
Proposed Control of Access	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage / Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	
Proposed Permanent Easement with Iron Pin and Cap Marker	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
VEGETATION:	
Single Tree	
Single Shrub	
Hedge	
Woods Line	

Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
Recorded U/G Power Line	
Designated U/G Power Line (S.U.E.*)	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Booth	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
Recorded U/G Telephone Cable	
Designated U/G Telephone Cable (S.U.E.*)	
Recorded U/G Telephone Conduit	
Designated U/G Telephone Conduit (S.U.E.*)	
Recorded U/G Fiber Optics Cable	
Designated U/G Fiber Optics Cable (S.U.E.*)	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
Recorded U/G Water Line	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line	

TV:

TV Satellite Dish	
TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
Recorded U/G TV Cable	
Designated U/G TV Cable (S.U.E.*)	
Recorded U/G Fiber Optic Cable	
Designated U/G Fiber Optic Cable (S.U.E.*)	

GAS:

Gas Valve	
Gas Meter	
Recorded U/G Gas Line	
Designated U/G Gas Line (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
Recorded SS Forced Main Line	
Designated SS Forced Main Line (S.U.E.*)	

MISCELLANEOUS:

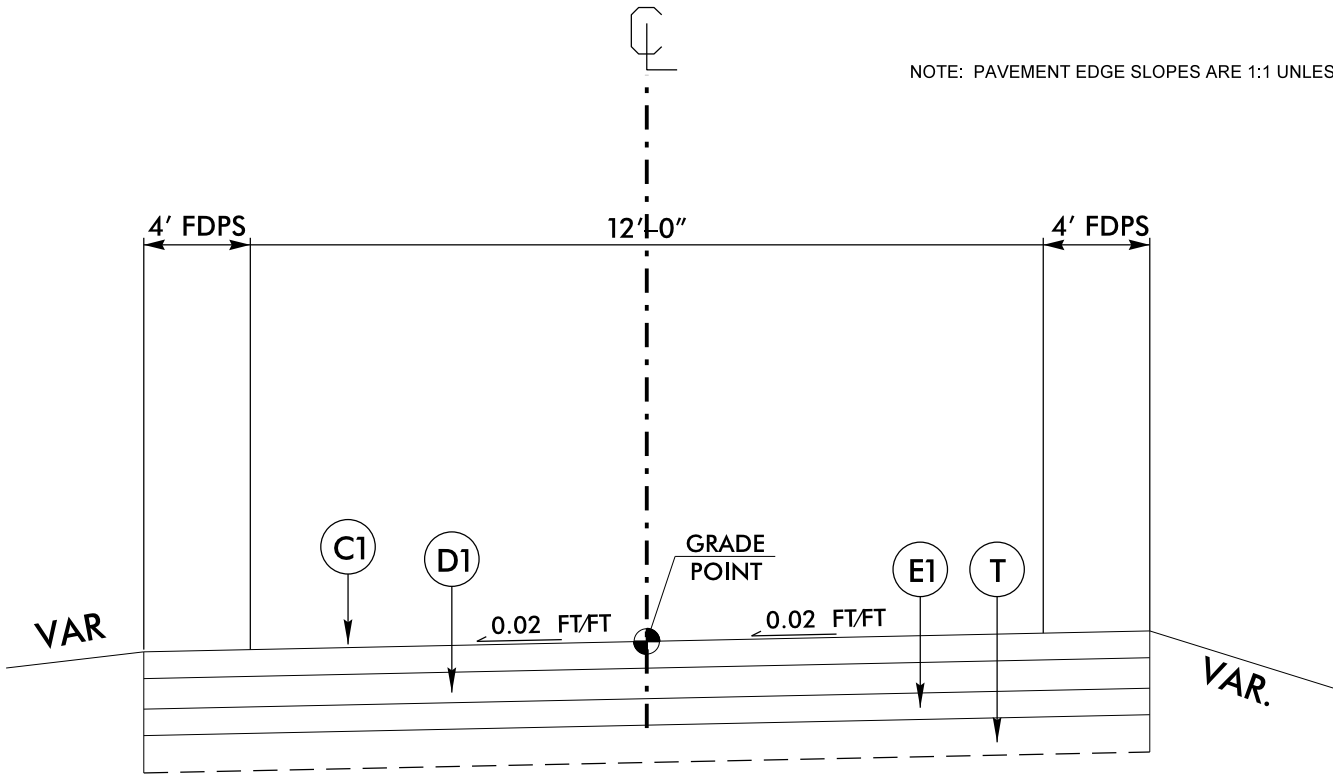
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole (S.U.E.*)	
Abandoned According to Utility Records	
End of Information	

6/2/99

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Cat Creek Turn Lane\DN00520_Gst_Creek Turn Lane\DN00520.rdy-tyt.dgn

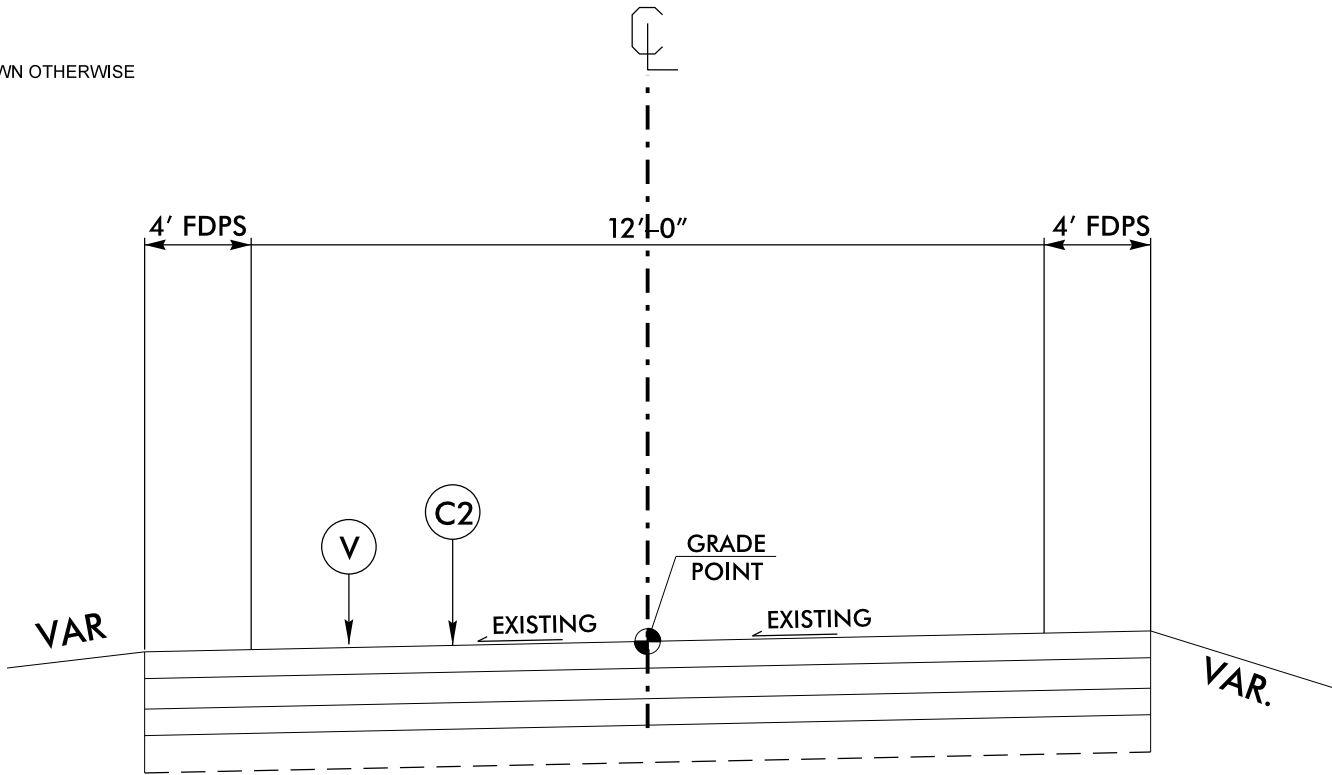
PROJECT REFERENCE NO.	SHEET NO.
WBS*: 45344.3.FS8	2
ROADWAY DESIGN ENGINEER	

PAVEMENT SCHEDULE					
(FINAL PAVEMENT DESIGN)					
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 336 lbs/sy.	D1	PROP APPROX 4" CONCRETE INTERMEDIATE COURSE, TYPE I19.0B AT AN AVERAGE RATE OF 456 lbs/sy	E1	PROP APPROX 4" CONCRETE BASE COURSE, TYPE B25.0B AT AN AVERAGE RATE OF 456 lbs/sy
T	EARTH MATERIAL	V	1.5" MILLING	C2	PROP. APPROX 1.5" ASPHALT CONCRETE SURFACE SOURCE, TYPE S9.5B AT AN AVERAGE RATE OF 168 LBS/SY



TYPICAL SECTION NO. 1

-Y2- Sta 16+45 TO Sta 19+60
SLIP LANE GOING WEST BOUND



TYPICAL SECTION NO. 2

-Y2- Sta 19+60 TO Sta 16+45
EXISTING SLIP LANE INTO TOWN

6/21/00

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL WIDTH	FLARE LENGTH		W		ANCHORS										IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	AT-1								
																								EA	G	NG					
-Y2-	13 + 50	17 + 75	RT	425																			2								
-Y2-	13 + 50	17 + 75	RT																								425				

PI Sta 15+67.88
 $\Delta = 0^\circ 42' 39.1''$ (LT)
 $D = 0^\circ 27' 30.1''$
 $L = 155.09'$
 $T = 77.54'$
 $R = 12,500.00'$

NAD 83/NA 2011

POT Sta. 10+00.00

[illegible]

**CONTRACTOR TO BE PAID FOR
SHOULDER CONSTRUCTION WITH THE
LUMP SUM GRADING PAY ITEM.
SHOULDER CONSTRUCTION SHOULD
BE COMPLETED ONCE PAVING
OPERATIONS IS COMPLETE**

END CONSTRUCTION OF NEW TURN LANE

-L-					
<i>Pls</i>	<i>Sta</i>	24+85.34	<i>Pl</i>	<i>Sta</i>	34+53.59
<i>Os</i>		1° 51' 36.9"	Δ		25° 53' 20.8" (RT)
<i>Ls</i>		250.00'	<i>D</i>		1° 29' 17.5"
<i>LT</i>		166.68'	<i>L</i>		17.39.62"
<i>ST</i>		83.34'	<i>T</i>		884.92"
			<i>R</i>		3,850.00'

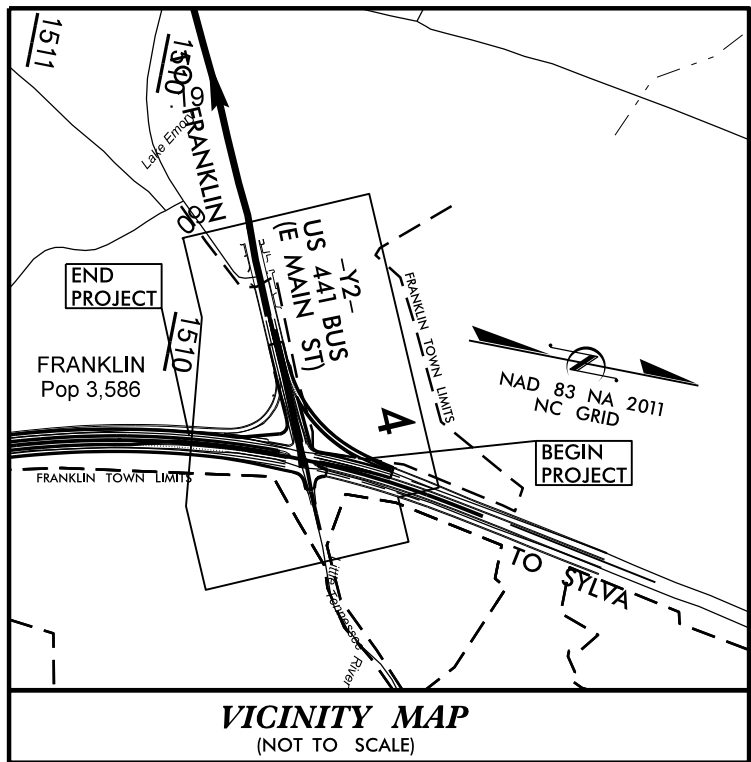
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09/08/99

WBS # 45344.3.FS8

CONTRACT: DN00520

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN

MACON COUNTY

LOCATION: US 441 BUSINESS TO US 23-441

GENERAL NOTES:

The following General notes apply at all times for the duration of the construction project, except when otherwise noted in the plan, or directed by the Engineer.

- 1.) Tie proposed pavement markings lines to existing pavement marking lines.
- 2.) Remove/Replace any conflicting/damaged pavement marking and markers.

INDEX OF SHEETS

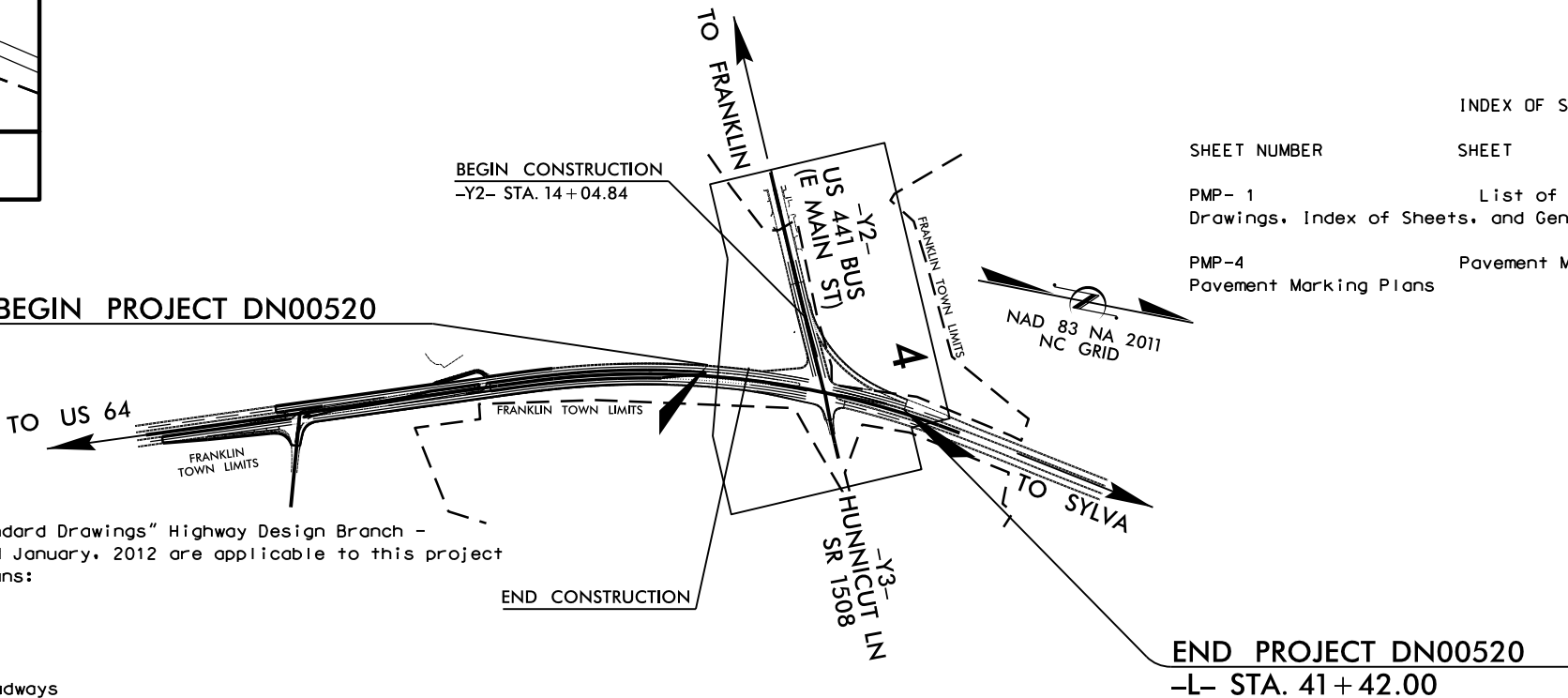
SHEET NUMBER

SHEET

PMP- 1 List of applicable Roadway Standard Drawings, Index of Sheets, and General Notes

PMP-4 Pavement Marking Schedule and Pavement Marking Plans

BEGIN PROJECT DN00520



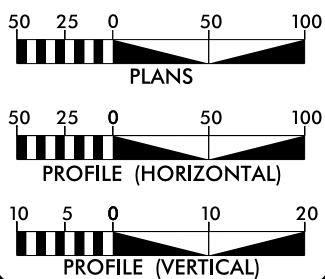
END PROJECT DN00520
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2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 12	- PAVEMENT MARKINGS, MARKER AND DELINEATION
1205.01	Pavement Markings - Line types and offsets
1205.02	Pavement Markings - Two-lane and multilane roadways
1205.03	Pavement Markings - Exit and Entrance Ramps
1205.04	Pavement Markings - Intersections
1205.05	Pavement Markings - Symbols and Word Messages
1250.01	Raised Pavement Markers - Installation Spacing
1253.01	Raised Pavement Markers - Snowplowable
1261.01	Guardrail and Barrier Delineators - Installation Spacing
1261.02	Guardrail and Barrier Delineators - Types and Mounting
1262.01	Guardrail End Delineation

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 19,000
ADT =
DHV = %
D = %
T = % *
V = 60 MPH
* TTST = DUAL
FUNC CLASS =
PRINCIPAL ARTERIAL
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT DN00520 = 0.25 MILES

PLANS PREPARED BY: DIVISION OF HIGHWAYS
191 ROBBINSVILLE RD
ANDREWS NC 28901

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 2, 1973

LETTING DATE:
MAY 23, 2017

ANDY RUSSELL, PE
PROJECT ENGINEER

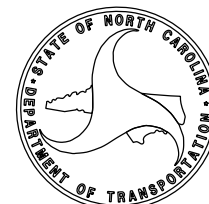
ALAN R. BROWN
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.

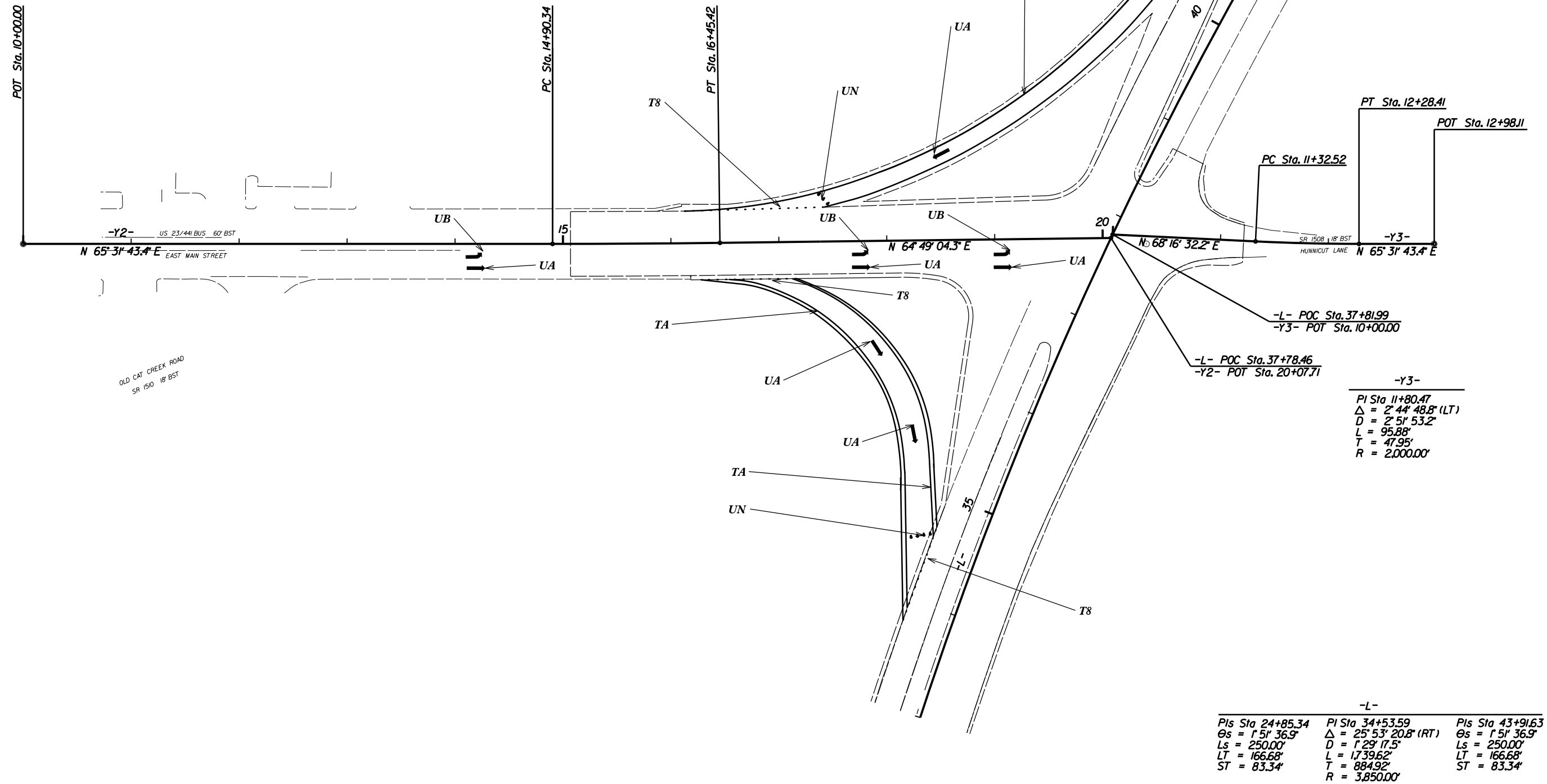


CS Sta. 43+08.29

NAD 83/NA 2011

<i>T8</i>	<i>THERMOPLASTIC 4" 2'-6'/SP. WHITE MINI-SKIP</i>
<i>TA</i>	<i>THERMOPLASTIC 4" WHITE EDGE LINE</i>
<i>UA</i>	<i>THERMOPLASTIC STRAIGHT ARROW</i>
<i>UB</i>	<i>THERMOPLASTIC LEFT ARROW</i>
<i>UN</i>	<i>THERMOPLASTIC 24" YIELD LINE TRIANGLE</i>

TA

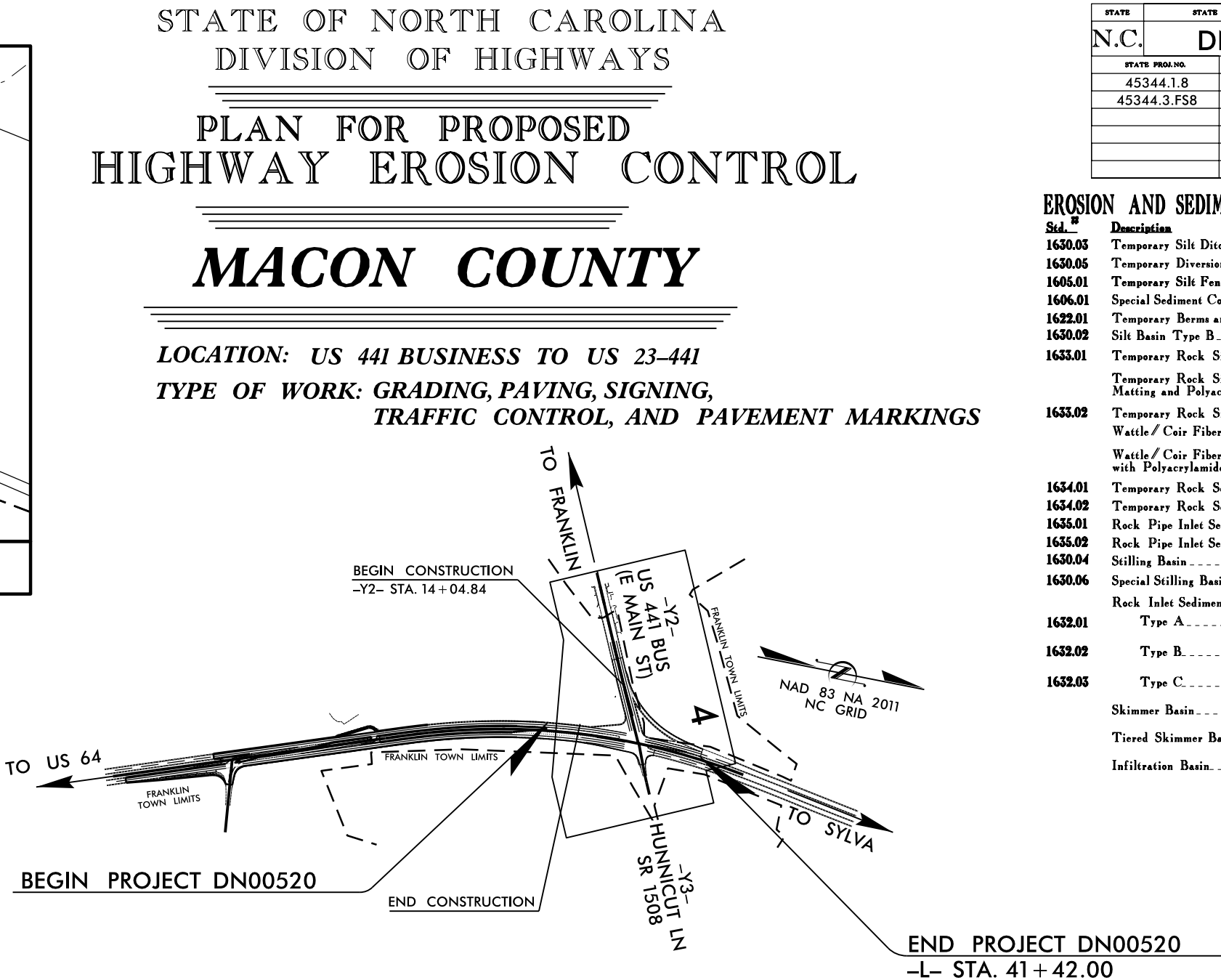
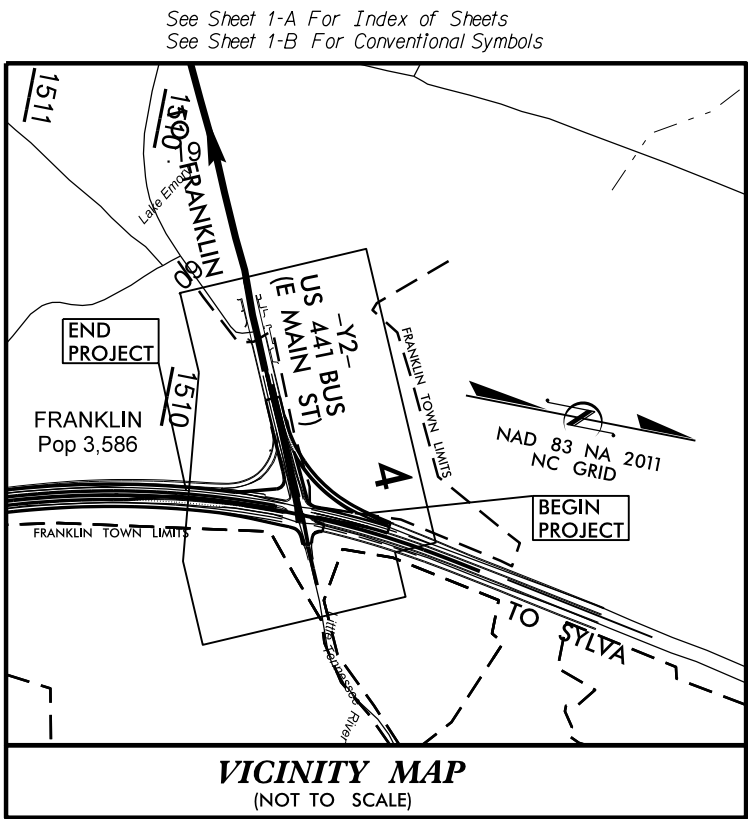


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09/08/99

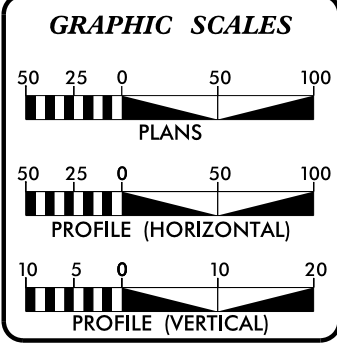
WBS # 45344.3.FS8

CONTRACT: DN00520



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DN00520	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45344.1.8	HSIP-0023(26)	P.E.	
45344.3.FS8	HSIP-0023(26)	CONSTRUCTION	

EROSION AND SEDIMENT CONTROL MEASURES		
Sta. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	TD
1633.01	Temporary Rock Silt Check Type-A	TD
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TD
1633.02	Temporary Rock Silt Check Type-B	TD
	Wattle / Coir Fiber Wattle	TD
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	TD
1634.01	Temporary Rock Sediment Dam Type-A	TD
1634.02	Temporary Rock Sediment Dam Type-B	TD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	TD
1635.02	Rock Pipe Inlet Sediment Trap Type-B	TD
1630.04	Stilling Basin	TD
1630.06	Special Stilling Basin	TD
	Rock Inlet Sediment Trap:	
1632.01	Type A	TD
1632.02	Type B	TD
1632.03	Type C	TD
	Skimmer Basin	TD
	Tiered Skimmer Basin	TD
	Infiltration Basin	TD



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

PLANS PREPARED BY: DIVISION OF HIGHWAYS
191 ROBBINSVILLE RD
ANDREWS NC 28901

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 2, 1973

LETTING DATE:
MAY 23, 2017

ANDY RUSSELL, PE
PROJECT ENGINEER

ALAN R. BROWN
PROJECT DESIGN ENGINEER

Roadway Standard Drawings

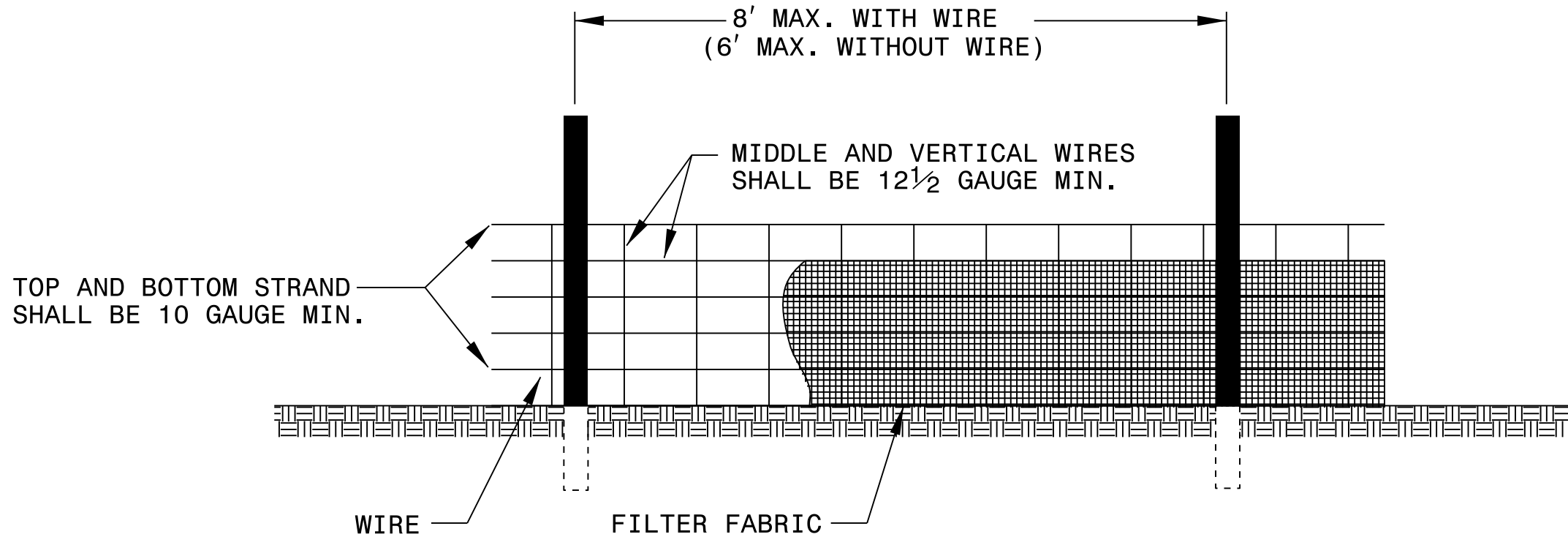
The following roadway english standards as appear in "Roadway Standard Drawings"-- Roadway Design Unit -- N. C. Department of Transportation -- Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type J
1630.05 Temporary Diversion	1640.01 Coir Fiber Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

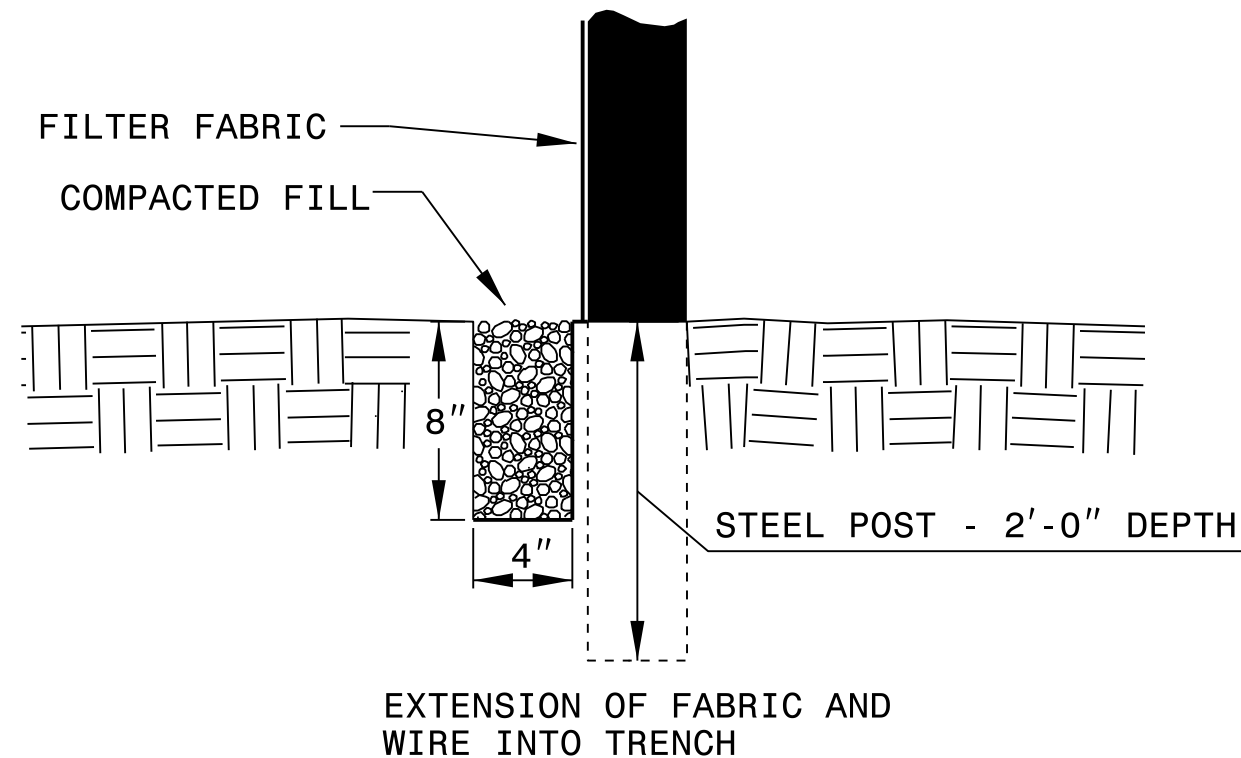


NOTES

USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.

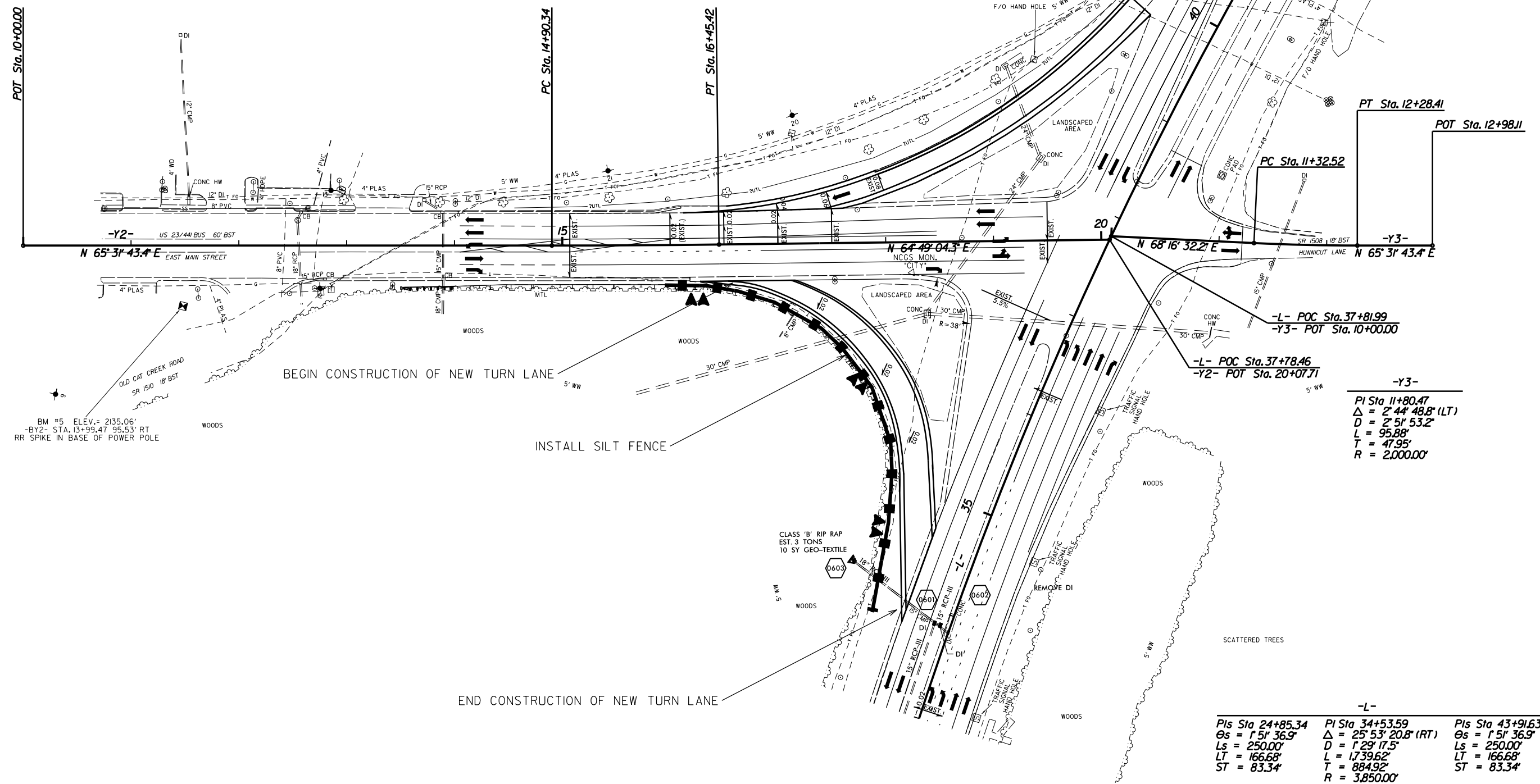


-Y2-

PI Sta 15+67.88
 $\Delta = 0^\circ 42' 39.5''$ (LT)
 $D = 0^\circ 27' 30.5''$
 $L = 155.09'$
 $T = 77.54'$
 $R = 12,500.00'$

NAD 83/NA 2011

**PLACE MATTING FOR EROSION CONTROL ON
SLOPES AS WORK ALLOWS**

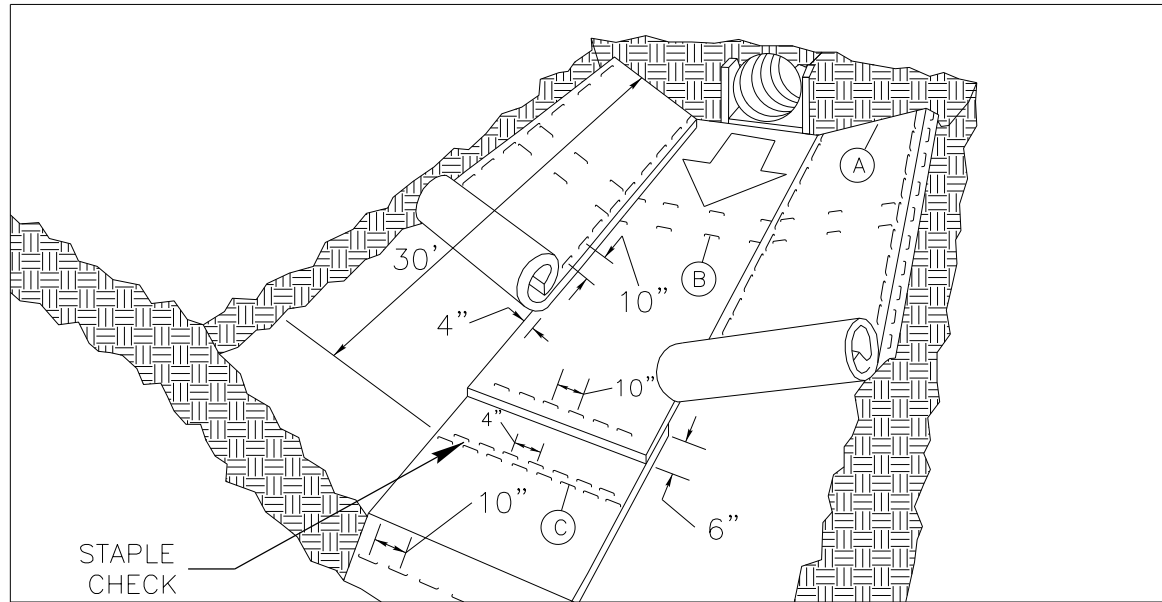


5/14/99

30-MAR-2017 14:35
Creek Turn Lane\DN00520 Cat Creek\DCN\DN00520_rdy-ECPSH04.dgn
wq4 AL 0147AD272166

MATTING INSTALLATION DETAIL

PROJECT REFERENCE NO.	SHEET NO.
45344.3.FS8	EC-5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATTING IN DITCHES

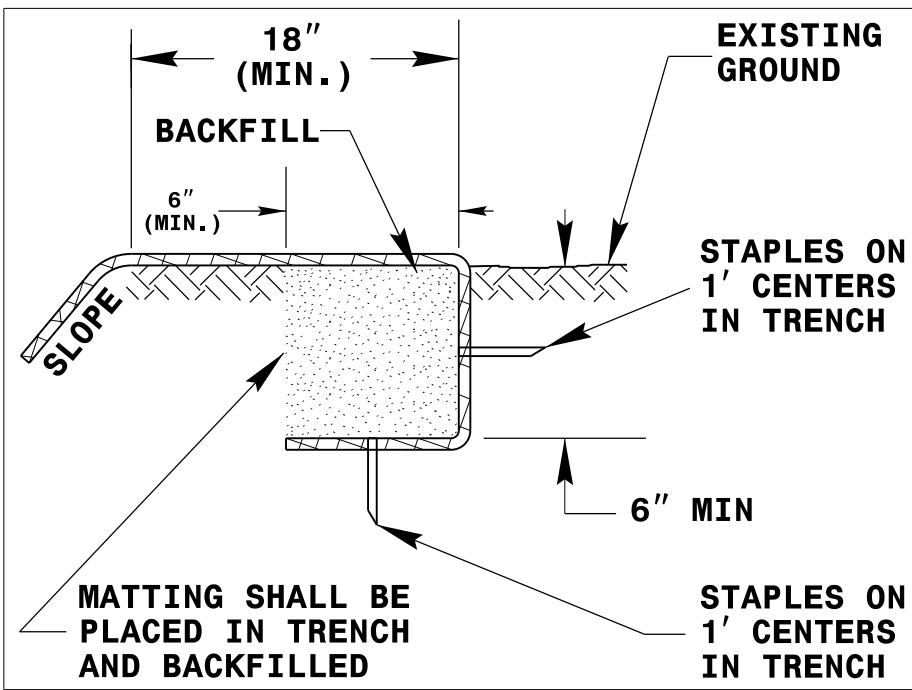
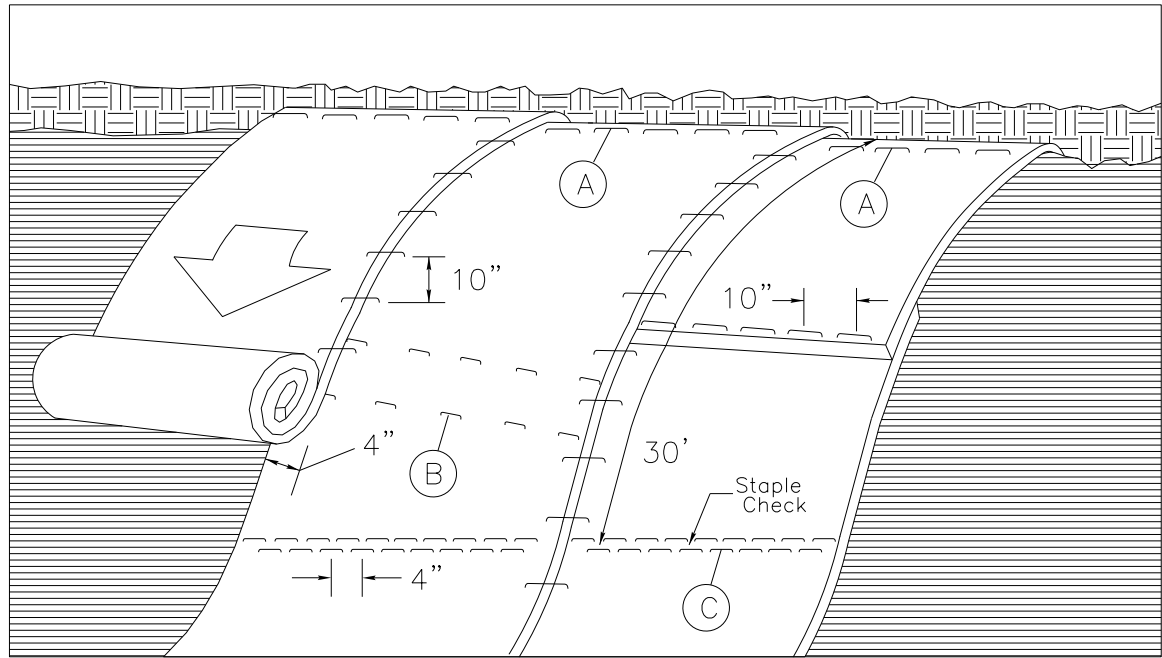


DIAGRAM A



MATTING ON SLOPES

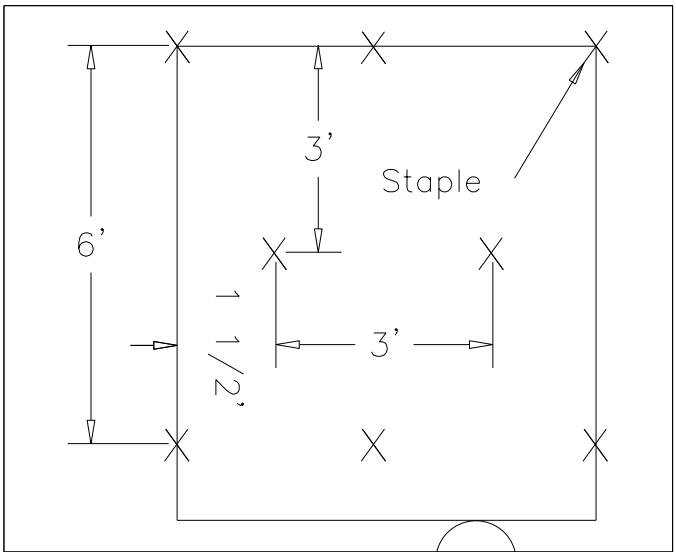


DIAGRAM B

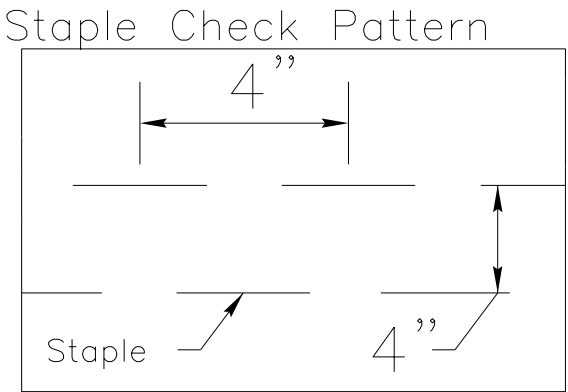


DIAGRAM C

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE